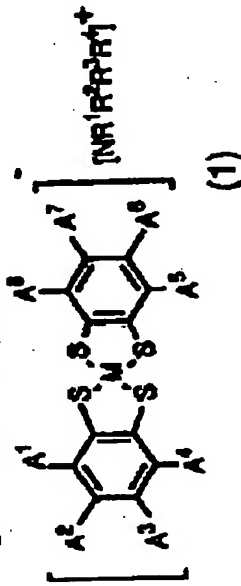| 95-260633/34　　E23 G02　　　　　　MITK 93.12.17	E(23-B, 25) G(2-A4A)
MITSUI TOATSU CHEM INC　　　　　*JP 07164729-A	
93.12.17 93JP-317811 *(95.06.27)* B41M 3/14, B42D 15/10, C09D 11/00, C09K 3/00	

MITSUI TOATSU CHEM INC
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93.12.17 93JP-317811 *(95.06.27)* B41M 3/14, B42D 15/10, C09D 11/00, C09K 3/00
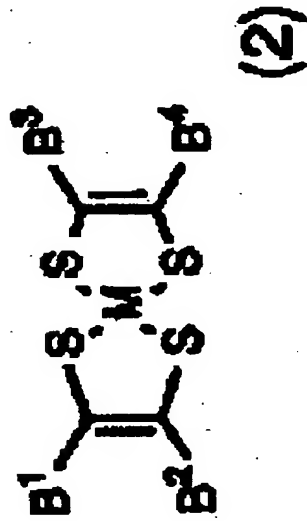
Security ink print with excellent light resistance. - which forms protective layer contg. UV emulsion absorbed in specified range on printing layer contg. IR light absorbing pigment

C95-118558

A security ink print forms a protective layer contg. ultraviolet emulsion absorbed in the range of 250nm to 400nm on a printing layer contg. near infrared ray absorbing pigment.

Also claimed is that the near infrared ray absorbing pigment is at least one of dithiol cpd. of formula (1), dithiol cpd. of formula (2), phthalocyanine cpd. of formula (3);
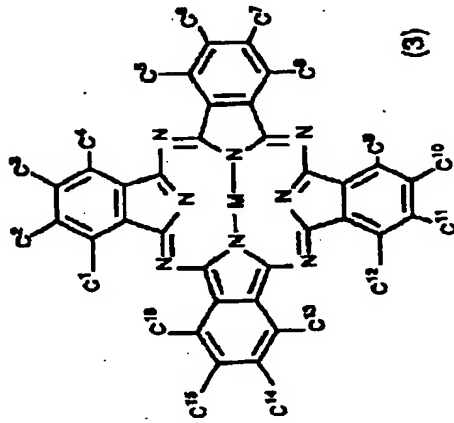

(1)

$A^1 - A^8$ = H, halogen, nitro, cyano, thiocyanate, cyanate, acyl, carbamoyl, alkylamino carbonyl, alkoxy carbonyl, aryloxy carbonyl, substd. or unsubstd. alkyl, aryl, alkoxy, aryloxy, alkylthio, arylthio, alkyl amino or aryl amino;

$R^1 - R^4$ = substd. or unsubstd. alkyl or aryl;

M = metallic atom of 2 values, contg. metallic atom of 3 or 4 values or oxy metal.

(2)

$B^1 - B^4$ = H, cyano, acyl, carbamoyl, alkylamino carbonyl, alkoxy

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carbonyl, aryloxy carbonyl, substd. or unsubstd. alkyl, aryl;
M = metallic atom of 2 values, substd. metallic atom of 3 or 4 values of oxy metal.

(3)

C1 - C16 = H, halogen, substd. or unsubstd. alkyl, alkoxy, aryl, aryloxy, alkylthio, arylthio;
M = metallic atom of 2 values, substd. metallic atom of 3 or 4 values or oxy metal.
D^1 - D^{24} = H, halogen, substd. or unsubstd. alkyl, alkoxy, aryl, aryloxy, alkylthio, arylthio;
M = metallic atom of 2 values, substd. metallic atom of 3 or 3 values

or oxy metal.

USE
  The security ink print is used for preventing faking of prepared cards, merchandise bonds or bonds by detection of near infrared ray.

ADVANTAGE
  The security ink print can have excellent light resistance.

(11pp104DwgNo.0/0)

JP 07164729-A